Notice of Allowability	Application No.	Applicant(s)
	10/605,757	KINNEY ET AL.
	Examiner	Art Unit
	Tu-Tu Ho	2818
The MAILING DATE of this communication appeals all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RID of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community of the community of	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to Amendment filed 05/6	<u>06/2005</u> .	
2. The allowed claim(s) is/are <u>1-45</u> .		
3. The drawings filed on 23 October 2003 are accepted by the	e Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	e been received in Application cuments have been received of this communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath or est be submitted. Son's Patent Drawing Review.	In No In this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient.
(b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet and sheet are should be labeled as such in the second sheet.	.84(c)) should be written on th	e drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Su Paper No./ 08), 7. □ Examiner's	formal Patent Application (PTO-152) Immary (PTO-413), Mail Date 20050519 Amendment/Comment Statement of Reasons for Allowance
David Malma		
Supervisory Patent Examiner		
Technology Center 2800		

DETAILED ACTION

Applicant's Amendment filed 05/06/2005 has been reviewed and placed of record in the file.

Election/Restrictions

1. Claims 1-32 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 33-45, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Process claims 33-45 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Allowable Subject Matter

2. Claims 1-45 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a conductive memory device and a method of manufacturing thereof with all exclusive limitations as recited in claims 1, 27, and 33, comprising a memory element including a first electrode; on the first electrode either: a first conductive metal oxide layer, a second conductive metal oxide layer, and a third conductive metal oxide layer, or: a bottom conductive metal oxide layer and a top conductive metal oxide layer; and a second electrode on the third conductive metal oxide layer or on the top conductive metal oxide layer; at least two of the first, second, and third conductive metal oxide layers comprising conductive

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metal oxides that are not identical to each other and at least one of the top and bottom conductive metal oxide layers being doped with a dopant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Tu-Tu Ho May 19, 2005 David Nelms
Supervisory Patent Examiner
Technology Center 2800